

Jose G Delgado-Frias

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

809
citations

623734

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713466

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g-index

104
all docs

104
docs citations

104
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Crosstalk Harnessed Signaling for Large 3D Routing Integration. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1059-1063.	3.0	1
2	A Crosstalk-Harnessed Signaling Enhancement that Eliminates Common-Mode Encoding. , 2021, , .		2
3	Asymmetric Crosstalk Harness Signaling for Common Eigenmode Elimination. IEEE Transactions on Computers, 2021, , 1-1.	3.4	1
4	Effective Low Leakage 6T and 8T FinFET SRAMs: Using Cells With Reverse-Biased FinFETs, Near-Threshold Operation, and Power Gating. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 765-769.	3.0	26
5	Online Firmware Functional Validation Scheme Using Colored Petri Net Model. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 1532-1545.	2.7	6
6	MWSCAS Guest Editorial Special Issue Based on the 62nd International Midwest Symposium on Circuits and Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3249-3250.	5.4	0
7	An implemented, initialization algorithm for many-dimension, Monte Carlo circuit simulations using Spice. , 2017, , .		3
8	Full-VDD and near-threshold performance of 8T FinFET SRAM cells. The Integration VLSI Journal, 2017, 57, 169-183.	2.1	15
9	Firmware functional validation using a Colored Petri Net model. , 2017, , .		1
10	Low-Power and Metallic-CNT-Tolerant CNTFET SRAM Design. , 2017, , 547-565.		0
11	Autonomous management of a recursive area hierarchy for large scale wireless sensor networks using multiple parents. Ad Hoc Networks, 2016, 39, 1-22.	5.5	2
12	A real-time UEFI functional validation tool with behavior Colored Petri Net model. , 2016, , .		2
13	UEFI USB bus initialization verification using Colored Petri Net. , 2015, , .		1
14	Near-threshold CNTFET SRAM cell design with removed metallic CNT tolerance. , 2015, , .		3
15	An evaluation of 6T and 8T FinFET SRAM cell leakage currents. , 2014, , .		4
16	Near-Threshold CNTFET SRAM Cell Design With Word-Line Boosting and Removed Metallic CNT Tolerance. IEEE Nanotechnology Magazine, 2014, 13, 182-191.	2.0	7
17	CNTFET 8T SRAM cell performance with near-threshold power supply scaling. , 2013, , .		4
18	Management of large-scale wireless sensor networks utilizing multi-parent recursive area hierarchies. , 2013, , .		1

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19	Near-threshold CNTFET SRAM cell design with gated cell power supply. , 2013, , .		3
20	SRAM leakage in CMOS, FinFET and CNTFET technologies. , 2012, , .		14
21	NOA: A Scalable Multi-Parent Clustering Hierarchy for WSNs. Procedia Computer Science, 2012, 10, 1140-1145.	2.0	2
22	FinFET 3T and 3T1D dynamic RAM cells. , 2012, , .		4
23	A superscalar processor for a medium-grain reconfigurable hardware. , 2012, , .		0
24	Carbon Nanotube SRAM Design With Metallic CNT or Removed Metallic CNT Tolerant Approaches. IEEE Nanotechnology Magazine, 2012, 11, 788-798.	2.0	26
25	CNTFET SRAM cell with tolerance to removed metallic CNTs. , 2012, , .		3
26	Low power and metallic CNT tolerant CNTFET SRAM design. , 2011, , .		8
27	CNTFET gate design with tolerance to metallic CNTs. , 2011, , .		2
28	Performance-power tradeoffs of 8T FinFET SRAM cells. , 2011, , .		4
29	A performance-power evaluation of FinFET flip-flops under process variations. , 2011, , .		0
30	A medium-grain reconfigurable processor organization. , 2011, , .		2
31	FPGA schemes for minimizing the power-throughput trade-off in executing the Advanced Encryption Standard algorithm. Journal of Systems Architecture, 2010, 56, 116-123.	4.3	31
32	A novel analytical model for wormhole switching network on chip with adaptive routing. , 2010, , .		2
33	A medium-grain reconfigurable processing unit. , 2010, , .		2
34	Low power SRAM cell design for FinFET and CNTFET technologies. , 2010, , .		16
35	CNTFET SRAM cell design with tolerance to metallic CNTs. , 2010, , .		4
36	Low-Power FinFET design schemes for NOR address decoders. , 2010, , .		6

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37	IP Routing table compaction and sampling schemes to enhance TCAM cache performance. Journal of Systems Architecture, 2009, 55, 61-69.	4.3	5
38	Decreasing energy consumption in address decoders by means of selective precharge schemes. Microelectronics Journal, 2009, 40, 1590-1600.	2.0	7
39	Performance of CNFET SRAM cells under diameter variation corners. , 2009, , .		8
40	Delay and Energy Analysis of SEU and SET-Tolerant Pipeline Latches and Flip-Flops. IEEE Transactions on Nuclear Science, 2009, 56, 1618-1628.	2.0	26
41	Intelligent management of distributed dynamic sensor networks. Artificial Life and Robotics, 2008, 12, 81-87.	1.2	8
42	High-Performance Low-Power Selective Precharge Schemes for Address Decoders. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 917-921.	3.0	18
43	Multiple node upset mitigation in TPDICE-based pipeline memory structures. , 2008, , .		0
44	A Medium-Grain Reconfigurable Architecture for DSP: VLSI Design, Benchmark Mapping, and Performance. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 14-23.	3.1	17
45	Clock skew tolerant communication scheme for SoC IP blocks. , 2008, , .		1
46	High-performance low-power AND and Sense-Amp address decoders with selective precharging. , 2008, , .		2
47	Reducing power in memory decoders by means of selective precharge schemes. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	5
48	Using a Cache Scheme to Detect Misbehaving Nodes in Mobile Ad-Hoc Networks. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	3
49	Hardened by Design Techniques for Implementing Multiple-Bit Upset Tolerant Static Memories. , 2007, , .		23
50	MARS: Misbehavior Detection in Ad Hoc Networks. , 2007, , .		14
51	Medium-Grain Cells for Reconfigurable DSP Hardware. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1255-1265.	0.1	9
52	Redundant Array of Independent Fabrics - An Architecture for Next Generation Network. , 2007, , .		0
53	Fault Tolerant Interleaved Switching Fabrics For Scalable High-Performance Routers. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1727-1739.	5.6	14
54	A two-level reconfigurable architecture for digital signal processing. Microelectronic Engineering, 2007, 84, 244-252.	2.4	10

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55	Preface of Special Issue on VLSI Design and Test. <i>Microelectronic Engineering</i> , 2007, 84, 193.	2.4	2
56	Emergent societies: advanced IT support of crisis relief missions. <i>Artificial Life and Robotics</i> , 2007, 11, 116-122.	1.2	2
57	NXG05-1: Interleaved Multistage Switching Fabrics for Scalable High Performance Routers. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006, , .	0.0	2
58	Schemes for eliminating transient-width clock overhead from SET-tolerant memory-based systems. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 1564-1573.	2.0	27
59	A Shared Self-Compacting Buffer for Network-On-Chip Systems. <i>Midwest Symposium on Circuits and Systems</i> , 2006, , .	1.0	10
60	A mesochronous pipelining scheme for high-performance digital systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006, 53, 1078-1088.	0.1	10
61	An Energy-Efficient Differential Flip-Flop for Deeply Pipelined Systems. <i>Midwest Symposium on Circuits and Systems</i> , 2006, , .	1.0	12
62	A Reduced Clock Delay Approach for High Performance Mesochronous Pipeline. <i>Midwest Symposium on Circuits and Systems</i> , 2006, , .	1.0	1
63	High Performance Memory Read Using Cross-Coupled Pull-up Circuitry. <i>Midwest Symposium on Circuits and Systems</i> , 2006, , .	1.0	5
64	Wave-Pipelining the Global Interconnect to Reduce the Associated Delays. <i>Midwest Symposium on Circuits and Systems</i> , 2006, , .	1.0	3
65	Performance Analysis of Multipath Data Transmission in Multihop Ad Hoc Networks. , 2006, , .		0
66	Advanced IT support of crisis relief missions. <i>Journal of Emergency Management</i> , 2006, 4, 29-36.	0.3	10
67	Decoupled dynamic ternary content addressable memories. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2005, 52, 2139-2147.	0.1	15
68	A VLSI crossbar switch with wrapped wave front arbitration. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003, 50, 135-141.	0.1	8
69	A hybrid wave pipelined network router. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002, 49, 1764-1772.	0.1	28
70	A VLSI wrapped wave front arbiter for crossbar switches. , 2001, , .		2
71	BASIS: A Biological Approach to System Information Security. <i>Lecture Notes in Computer Science</i> , 2001, , 127-142.	1.3	9
72	A wave-pipelined router architecture using ternary associative memory. , 2000, , .		1

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73	A high-performance encoder with priority lookahead. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1390-1393.	0.1	26
74	Elementary function generators for neural-network emulators. IEEE Transactions on Neural Networks, 2000, 11, 1438-1449.	4.2	31
75	A neuro-emulator with embedded capabilities for generalized learning. Journal of Systems Architecture, 1999, 45, 1219-1243.	4.3	1
76	Executing tree routing algorithms on a high-performance pattern associative router. Journal of Systems Architecture, 1998, 44, 849-866.	4.3	1
77	A CLUSTERING AND GENETIC SCHEME FOR LARGE TSP OPTIMIZATION PROBLEMS. Cybernetics and Systems, 1998, 29, 137-157.	2.5	3
78	A programmable dynamic interconnection network router with hidden refresh. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 1182-1190.	0.1	14
79	Sigmoid generators for neural computing using piecewise approximations. IEEE Transactions on Computers, 1996, 45, 1045-1049.	3.4	82
80	Software Metrics and Microcode: A Case Study. Journal of Software: Evolution and Process, 1996, 8, 199-224.	0.4	3
81	A flexible bit-pattern associative router for interconnection networks. IEEE Transactions on Parallel and Distributed Systems, 1996, 7, 477-485.	5.6	21
82	A pattern-associative router for interconnection network adaptive algorithms. Lecture Notes in Computer Science, 1996, , 213-217.	1.3	0
83	Flexible oblivious router architecture. IBM Journal of Research and Development, 1995, 39, 315-329.	3.1	8
84	A VLSI Pipelined Neuroemulator. , 1994, , 71-80.		3
85	SPIN: THE SEQUENTIAL PIPELINED NEUROEMULATOR. International Journal on Artificial Intelligence Tools, 1993, 02, 117-132.	1.0	2
86	SEMANTIC NETWORK ARCHITECTURES: AN EVALUATION. International Journal on Artificial Intelligence Tools, 1992, 01, 57-83.	1.0	2
87	Digital neural emulators using tree accumulation and communication structures. IEEE Transactions on Neural Networks, 1992, 3, 934-950.	4.2	13
88	ARCHITECTURAL SCHEMES FOR SEMANTIC NETWORKS. , 1992, , 516-540.		0
89	A Dataflow Architecture for AI. , 1991, , 23-32.		1
90	Parallel architectures for AI semantic network processing. Knowledge-Based Systems, 1988, 1, 259-265.	7.1	8

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91	Design and evaluation of a DAMQ multiprocessor network with self-compacting buffers. , 0, , .		20
92	A high performance pattern associative oblivious router for tree topologies. , 0, , .		5
93	A VLSI self-compacting buffer for DAMQ communication switches. , 0, , .		4
94	A dictionary machine emulation on a VLSI computing tree system. , 0, , .		0
95	A VLSI high-performance encoder with priority lookahead. , 0, , .		16
96	Self-timed refreshing approach for dynamic memories. , 0, , .		3
97	A hybrid wave-pipelined network router. , 0, , .		3
98	Pipelined multipliers for reconfigurable hardware. , 0, , .		5
99	Enhanced fault-tolerant CMOS memory elements. , 0, , .		2
100	A Distributed FIFO Scheme for on Chip Communication. , 0, , .		2
101	A High Performance Hybrid Wave-Pipelined Multiplier. , 0, , .		4
102	A mesochronous pipeline scheme for high performance low power digital systems. , 0, , .		1